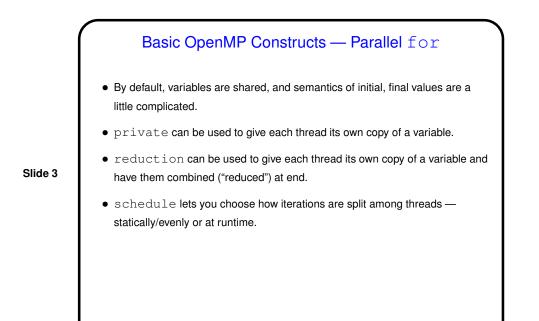
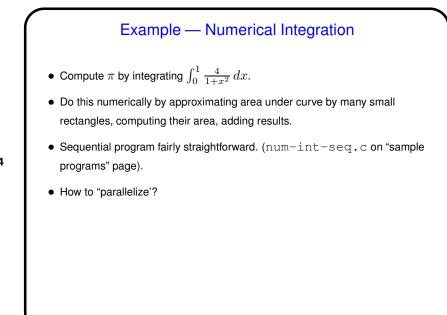


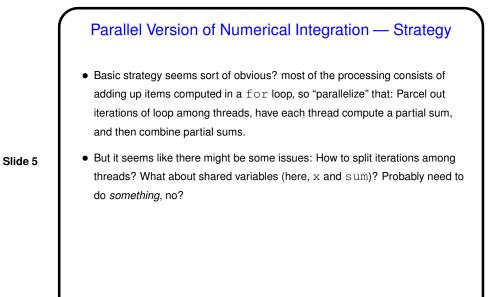
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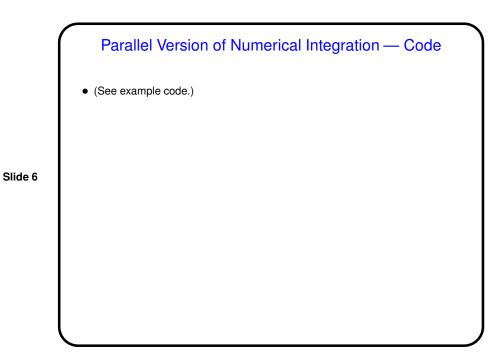


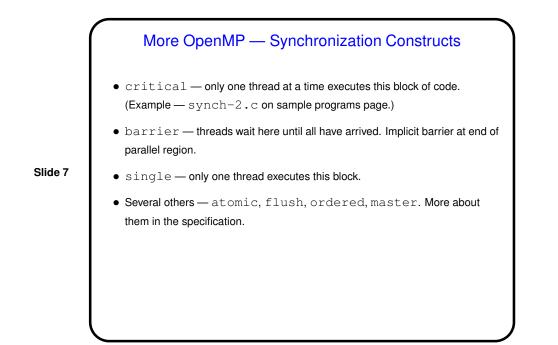
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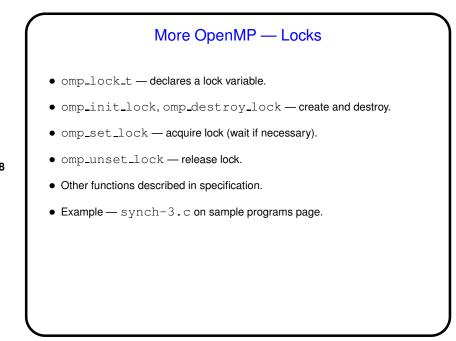
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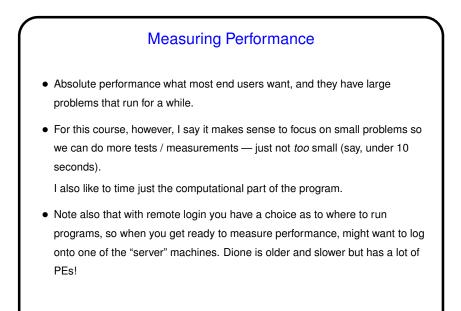








Slide 8



Homework 1 — Overview

• Assignment asks you to parallelize a sequential program fairly similar to numerical integration example:

The sequential program estimates the value of π by simulating throwing "darts" at a square board and counting how many fall within an inscribed quarter-circle.

If the board is a square of size 1, its area is 1, and the area of the quarter-circle is $\pi/4$. If the darts are thrown randomly, and there are enough of them, dividing the number that fall inside the quarter-circls by the total number should give an approximation to $\pi/4$.

• The assignment will eventually ask you to do this in each of the programming environments we'll use, as a way of getting started with them. We'll do it twice, once just to get started and to discover some possibly-subtle pitfalls, and again to address those pitfalls.

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Slide 10

